



## Gulf of Mexico Harmful Algal Bloom Bulletin

5 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 2, 2007

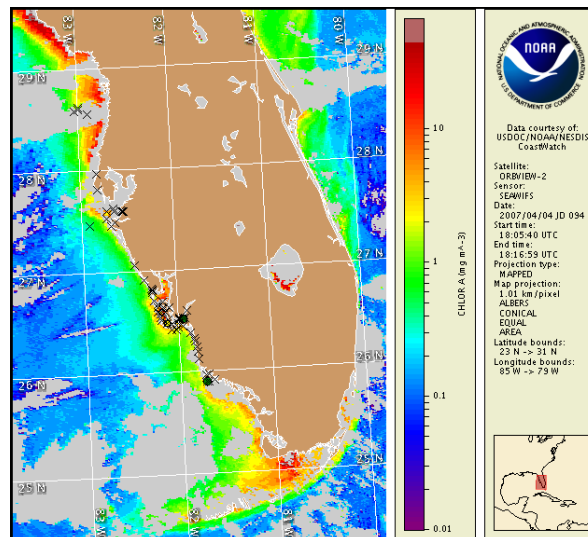
### Conditions Report

A harmful algal bloom has been identified in patches from southern Lee to central Collier County. Patchy very low impacts are possible in southern Lee through Monday. No other impacts are expected.

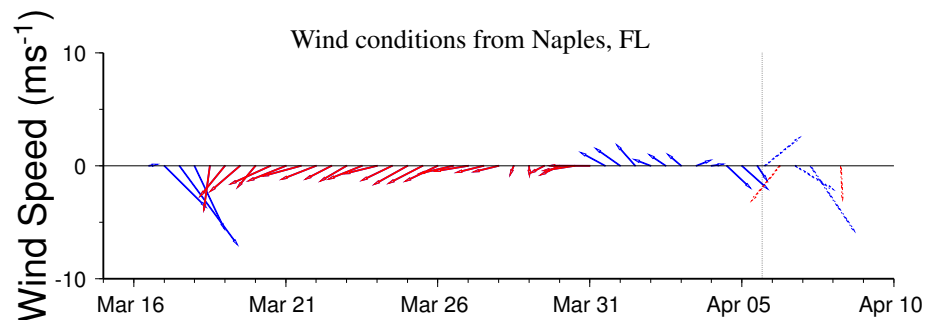
### Analysis

The harmful algal bloom along the coast of southwest Florida continues to dissipate. Chlorophyll concentrations have decreased south of Cape Romano, but remain slightly elevated with a maximum chlorophyll of about  $6 \mu\text{g/L}$  at  $25^\circ 48' 21'' \text{N}$   $81^\circ 40' 43'' \text{W}$  based on satellite imagery from 4/2. No recent samples have detected *K. brevis* along the coast from Charlotte to Collier County, or in the Keys (3/28-4/3, FWRI). Slight southerly transport of the bloom is expected through Monday; intensification is not likely.

- Allen, Fenstermacher



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 26-April 3 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)



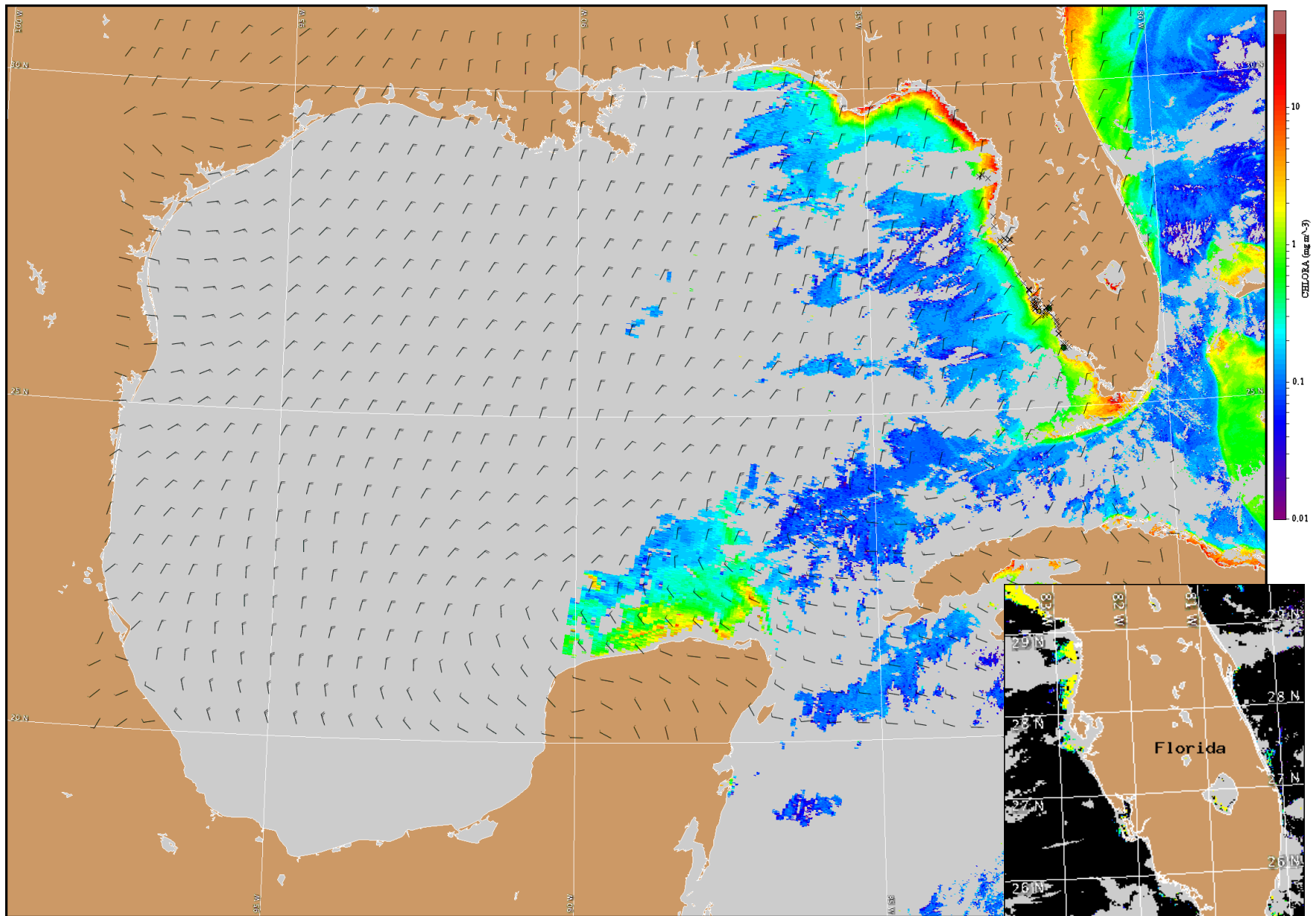
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northeasterly winds today at 5 knots (3 m/s) becoming westerly to northerly by tonight at 10-15 knots (5-8 m/s). North to northwesterly winds Friday at 15-20 knots (8-10 m/s), decreasing to 10-15 knots (5-8 m/s) by Saturday. Northeasterly winds Sunday becoming east to southeasterly Sunday afternoon and evening. Westerly winds Monday at 15-20 knots (8-10 m/s).

Lower Keys: Variable winds today at 5-10 knots (3-5 m/s) becoming northerly tonight. Northerly winds Friday and Saturday at 15-20 knots (8-10 m/s), becoming northeasterly Sunday at 10-15 knots (5-8 m/s), then clocking to the southeast Sunday night to the southwest by Monday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

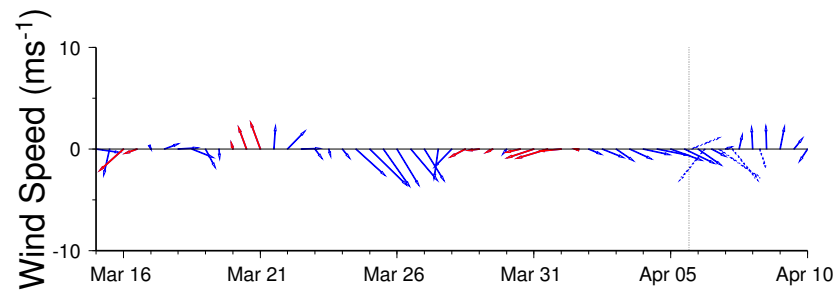
1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for April 6, 2007 06Z with cell concentration sampling data from March 26-April 3 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: [http://www.csc.noaa.gov/crs/habf/habfs\\_bulletin\\_guide.pdf](http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf)

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Fort Meyers, FL



Wind conditions from Vaca Key, FL

